Claims:

1. A method of creating a lightpath between a source and a destination in an optical communications system a utilizing network management system (NMS) comprising:

selecting lightpath parameters; selecting lightpath endpoints at the source and destination; and completing the lightpath through intermediate nodes.

- 2. The method as defined in claim 1 wherein the lightpath is completed through intermediate nodes using an automatic selection algorithm.
- 3. The method as defined in claim 1 wherein the lightpath is completed through intermediate nodes using a manual selection process.
- 4. The method as defined in claim 1 wherein the lightpath is completed using a combination of an automatic selection algorithm and a manual selection process.
- 5. The method as defined in claim 1 wherein lightpath parameters include: lightpath name; protocol, bit rate, source node lambda end point and destination node lambda end-point.
- 6. The method as defined in claim 1 wherein the step of selecting endpoints include the selection of particular intermediate nodes that the lightpath will traverse.
- 7. The method as defined in claim 1 wherein the step of selecting endpoints includes the selection of wavelengths for the lightpath.

- The method as defined in claim 7 wherein the selection of wavelengths is implementable at intermediate nodes.
- 9. The method as defined in claim 2 wherein after the lightpath has been selected automatically, an operator may reject and select different wavelengths for some or all of the wavelengths in the lightpath.
- 10. A network management system (NMS) for creating a lightpath between a source and a destination in an optical communication system, the NMS comprising:

means for viewing and selecting lightpath parameters;
means for viewing and selecting lightpath endpoints at the source and destination; and

means for completing the lightpath through intermediate nodes.

- 11. The NMS as defined in claim 10 having a graphical user interface (GUI) for displaying lightpath parameters and input means for selecting.
- 12. The NMS as defined in claim 11 wherein an operator can manually complete the lightpath.
- 13. The NMS as defined in claim 11 for implementing an automatic selection algorithm to automatically complete the lightpath.
- 14. The NMS as defined in claim 11 wherein the lightpath is completed utilizing manual selection and an automatic selection algorithm.
- 15. The NMS as defined in claim 13 wherein, after the lightpath has been selected automatically a user can change lightpath parameters.

- 16. The NMS as defined in claim 15 wherein lightpath parameters include wavelengths on a complete lightpath.
- 17. The NMS as defined in claim 15 wherein wavelengths can be changed for lightpath segments.